

INDEX TO VOLUME IX.

A

- AARON, EUGENE M., Article by, 200.
Acidalia junctaria, 27.
Actias luna, 33.
Acrididae, List of, Found in Nebraska, 144.
Acronycta dissecta, 27.
 " *Walkeri*, n. s., 98.
Adela bella, 207.
 " *bivella*, 206.
 " *Schlaegeri*, 207.
Aesyle fasciella, 123.
Aetole bella, 72.
Agnippe bicolorrella, 231.
Agrotis clandestina, 28.
 " *herilis*, 28.
 " *messoria*, 29.
 " *trabalis*, n. s., 198.
Amblychila cylindriformis, 16.
 " *Habitus* of, 18, 163.
Amblyscirtes nyssa, n. s., 191.
 American Entomological Society, 226.
Andrena impuncta, 154.
 " *varians*, 155.
 ANDREWS, W. V., Articles by, 19, 98, 100, 179
 ANGUS, JAMES, Article by, 239.
Anisota, a new Texan, 110.
 " *Heitigbrodti*, n. s., 110.
 Annual Address of President, 183.
Antaplagia, n. g., 70.
 " *dimidiata*, n. s., 71.
Antispila ampelopsella, 195.
 " *hydrangaeella*, 195.
Apatela falcula, n. s., 86.
 " *hamamelis*, Larva of, 61.
Aphidæ, a new Genus of, 102.
Arctia isabella, Larva of, 127.
Argynnis atlanta, 34.
 " *bellona*, 34.
 " *cybele*, 34.
 " *diana*, 200.
 " *myrina*, 34.
Argyresthia austeraella, 72.
 " *undulatella*, 72.
Argyrophytes, n. g., 236.
 " *cilioides*, 237.
 " *nigrofasciata*, 238.
Aspilates pervaria var. *termininaria*, 90.
Asopia devialis, 27.
Asyncha ? pulvella, 145.
Audela acronyctoides, 27.
 AUSTIN, E. F., Article by, 92.

B

- BAILEY, JAMES S., Articles by, 115, 275, 240.
Baptisia albovittata, 28.
 BASSETT, H. F., Article by, 121.
 BATES, J. E., Article by, 160.
Batrachedra striolata, 145.

- BEAN, THOS. E., Articles by, 174, 201.
Begoe costulatella, 24.
 BELL, JAMES H., Articles by, 59, 139.
 BETHUNE, REV. C. J. S., Articles by, 148, 221.
 Birds, Life Histories of, 37.
Blastobasis, 71.
 " *sciphicella*, 71.
Bleptina caradrinalis, 29.
 Bombycidae, List of Occurring at Montreal, 90.
 Book Notices, 36, 80, 137.
 BOTIS, Description of a new, 10.
 " *allectalis*, n. s., 107.
 " *atropurpuralis*, n. s., 104.
 " *catenulalis*, n. s., 105.
 " *coloradensis*, 103.
 " *flavidissimalis*, n. s., 105.
 " *fracturalis*, 103.
 " *Harveyana*, n. s., 104.
 " *illabilis*, 28.
 " *Langdonalis*, n. s., 10.
 " *nasonialis*, 103.
 " *onythesalis*, 104.
 " *pennibradialis*, n. s., 106.
 " *socialis*, n. s., 107.
 " *tatalis*, n. s., 106.
 " *vibicalis*, 103.
 Bracon crocator, 150.
 BRODIE, W., Article by, 11.
 BROUS, HARRY A., Article by, 18.
 BRUNER, LAWRENCE, Articles by, 20, 144.
 BUNKER, ROBERT, Articles by, 119, 120, 210.
 Butterflies Collected in Colorado and Utah, 80.
 " Effects of cold in changing form of, 203.
 " Hybernatting, notes on, 40.
 " New species of, 189.
 " On Martha's Vineyard, 178.
 " Sexes of, 178.
- C
- Cabinet pests, how to destroy, 139.
 Californian Hepiali, 214.
 Callenyo, 131.
Calocampa nupera, 29.
Caloptenus angustipennis, n. s., 111.
 " *plumbum*, n. s., 112.
 " *volucris*, n. s., 112.
 Captures at Lake Forest, N. Y., 119.
 " at Sugar, 140.
Caradrina bilunata, n. s., 199.
Carpocapsa pomonella, 188.
Catocala abbreviatella, 169.
 " *agrippina*, 178.
 " *anna*, 168.
 " *Frederici*, 168.
 " *gracilis*, 169.
 " *junctura*, 168.
 " *marmorata*, 178, 239.
 " *residua*, var., 194.
 " *subnata*, 160.
 " *subviridis*, n. s., 193.

INDEX TO VOLUME IX.

- Catocala, Black-winged, 192.
 " Taken at sugar, Center, N. Y., 215.
 " Notes on, 168.
 " On Capturing in day time, 18.
CAULFIELD, F. B., Articles by, 40, 75, 90.
Center, N. Y., Entomologically Considered, 115.
CHAMBERS, V. T., Articles by, 13, 22, 38, 71, 108,
 123, 145, 194, 206, 231.
Chelostoma albifrons, 255.
Chrysalis of Butterflies, Effects of cold on, 187.
Chrysobothris femorata, 224.
Chytomyia palliaticula, 196.
Cicindela purpurea, 100.
 " *vulgaris*, 100.
Cidaria lactispargaria, 28.
Cisthene subiecta, 160.
Cleora limitaria, 27.
Clistocampa sylvatica, 158, 184.
Clytus robiniae, 223.
 " *speciosus*, 222.
Coleophora bistrigella, 14.
Coleoptera, Synonymy of North American, 92.
Colopha, *n. g.*, 102.
 " *ulmicola*, 102.
Colorado Potato Beetle, 174, 185.
Coremia palparia, 28.
Coriscium quinquestrigella, 14.
 Correspondence, 38, 59, 100, 119, 138, 178, 200, 218,
 239.
Cosmia infumata, 22.
Cosmus, on a new species of, 129.
 " *centerensis*, *n. s.*, 129.
Cotton Worm, 173.
COUPER, W. M., Article by, 133.
Crambus, a new Canadian, 101.
 " *interruptus*, *n. s.*, 101.
Cryptocentrum, the genus, 150.
 " *linicolatum*, 150.
Cryptus viduatorius, 149.
Cypidae, Remarks upon, 121.
Cynips q. batatas, 121.
 " q. operator, 121.

D

- Darapsa myron*, 160.
Dasychira Lintneri, *n. s.*, 85.
 " *clandestina*, 27.
Deilephila chamaenerii, 63.
 " " Larva of, 64.
 " *lineata*, 63, 179.
 " " Larva of, 64.
DENTON, J. M., Article by, 160.
DEVEREAUX, W. L., Article by, 160.
Dicty corruccascia, 207.
Diptera, List of Canadian, 133.
DODGE, G. M., Article by, 111.
Dryocampa rubicunda, 179.
Dryobota stigmata, 199.
DURY, CHAS., Article by, 178.

E

- Epantheria scribonia*, Larva of, 128.
 Economic Entomology, by Andrew Murray, 139.
EDWARDS, W. H., Articles by, 1, 17, 29, 34, 51, 58,
 114, 120, 141, 165, 178, 189, 203, 229.
Elibia, 132.
Endropis homuraria, 89.
 Entomological Club of the A. A. A. S., 158.
 " " " Proceedings
 of, 172.

- Entomological Commission, United States, 81, 185.
 " Pins seized for duties, 238.
 " Society, Long Island, 100.
 " " of Ontario, annual meeting of, 181.
 " " " " " Donation to, 240.
 " " " " Report of Montreal Branch, 211.
 Entomological Works, Recent, 187.
Ephyra myrtaria, Larva of, 62.
Epizexis aemula, 29.
Erebis zenobia, 219.
Errata, 13, 30.
Euchaetes collaris, Larva of, 170.
 " *Spraguei*, 85.
Euclea incisa, 85.
Eupithecia absinthiata, Larva of, 62.
Eurycreon communis, 105.
Eustrotia albida, 28.
 " *marie*, *n. s.*, 67.
 " *obaurata*, 237.
Everyx, 132.
Exentera, *n. g.*, 227.
 " *apriliana*, *n. s.*, 227.

F

- Fishia*, *n. g.*, 21.
 " *enthrea*, *n. s.*, 21.
Foenus jaculator, 148.
Forcips in Forcicula, Function of, 218.
Formica fusca, 151.
 " *semipunctata*, 151.
Frutuva, *n. g.*, 69.
 " *obsoletis*, *n. s.*, 69.

G

- Gelechia gallaeolidaginis*, 14.
 " *glandifera*, 24.
 " *glandifullia*, 14.
 " *leuconota*, 23.
 " *olympiadella*, 24.
 " *pudibundella*, 23.
 " *quinella*, 23.
 " *roseosuffusella*, 14.
 " *sella*, 14.
 " *serrativittella*, 24.
GENTRY, THOMAS G., Article by, 41.
Geometra, new genus of, 114.
 " *iridaria*, 157.
 " *rectaria*, *n. s.*, 157.
Glaea cariosa, *n. s.*, 21, 70.
Glyphypteryx montinella, 14.
GOODELL, L. W., Article by, 61, 180.
Gortyna rigida, 87.
Gracilaria albanotella, 193.
 " *alnivorella*, 15.
 " *12-lineella*, 124.
 " *erigoneella*, 127.
 " *fasciella*, 123, 194.
 " *inornatella*, 195.
 " *Packardella*, 194.
 " *plantaginella*, 137.
 " *purpurella*, 126, 195.
 " *quinquenotella*, *n. s.*, 124, 194.
 " *quinquestrigella*, 14.
 " *stigmatella*, 126.
GROTE, A. R., Articles by, 10, 12, 21, 27, 67, 84,
 96, 101, 103, 114, 119, 130, 135, 156, 161, 168,
 196, 209, 213, 220, 227, 235.

H

- Hadena delicata*, 197.
 " *devastatrix*, 28.
 " *quae sita*, 197.
 " *suffusca*, 29.
Haemotopus grataria, 29.
Haemorrhagia, 131.
HAGEN, DR. H., Article by, 13.
Halictus crassicornis, 154.
 " *rubicundus*, 154.
Haltica bimarginata, 94.
Harpalus caliginosus. Plates of, 138.
HARVEY, LEON F., Articles by, 75, 94, 95, 110, 192.
Hayden Expedition, Report of, 80.
Helicis pallidochrella, 15, 232.
Helophilus comoides, 28.
Heiloziella, 108.
 " *aevelia*, n. s., 108.
Hemileuca maia, Food Plants of, 119, 220.
Hemiptera, Canadian, Wanted, 15.
Herminia laevigata, 29.
Hesperian, a new, from Texas, 58.
Hessian Fly, &c., 100.
Hisia collaris, 93.
Holococera glandulella, 72.
 " *triangularis*, 71.
Homoptera edusa, 174.
 " *lunata*, 174.
 " Notes on some species of, 174.
 " *Saundersii*, 174.
 " Sexes of, 228.
 " *Woodii*, n. s., 88.
Homopyralis discalis, 22.
 " *tactus*, 28.
Hov, DR. P. A., Article by, 219.
Hydroergia lorea, 28.
 " *semiaperta*, 28.
 " *sera*, 28.

I

- Ichneumon ferrugator*, 149.
Imatidium 17-punctatum, 94.
 Important notice, 80.
Incurvaria mediotriatella, 207.
 Insects Feeding on *Gleditschia*, 231.
 " Illustrations of by Townend Glover, 36.
 " of the northern part of British America, 148.
 " Report on, 37.
 Interesting captures, 220.
Isognathus, 132.

K

- Kirby's Fauna Boreali Americana, 148.

L

- Languria inornata*, 92.
Larvae, Fondness of for water, 127.
Larval Variation, Notes on, 209.
Laverna definitella, 74.
 " *griseella*, 13.
 " *Murfeldella*, 13.
 " *oenotherzaella*, 73.
 " *unicristatella*, 74.

- Lepidoptera*, Edwards' Catalogue of, 97.
 " List of taken at Center, N. Y., 116.
 " New species of, 156.
 " Notes on, 213.
Lepidopteron Insect injurious to Pine, 161, 186.
Leptura ruficollis, 94.
Limacodes latomia, n. s., 75.
Limenitis prosperina and arthemis, Notes on, 114.
 " " 140.
LINTNER, J. A., Article by, 129.
Lintneria, the genus, 120.
Lithophane Baileyi, n. s., 86.
 " *viridipallens*, n. s., 215.
Lobophora vernata, 27.
Locust Plague in the U. S., by C. V. Riley, 240.
Lophoteryx americana, n. s., 95.
Lozogramma lactispararia, 89.
Lycena comyntas, 200.

M

- Macaria subapicaria*, 27.
Mamestra adjuncta, Larva of, 61.
 " *albifusa*, 28.
 " *Beani*, n. s., 87.
 " *lilacina*, 28.
 " *vicina*, 197.
Melipotis, on species of, 94.
 " *jucunda*, 94.
 " *sinualis*, n. s., 94.
 " *versabilis*, 94.
Melitaea dynas, n. s., 190.
 " *phaeton*, 139, 160.
 " *ulrica*, n. s., 189.
Meloe angusticollis, Notes on, 11, 75, 140.
 " *americanus*, 75.
 " Notes on some species of, 75.
Meschede, n. g., 114.
 " *dyspteraria*, 115.
Microcilia fragilis, 27.
Miscellaneous, 160.
MOFFAT, J. A., articles by, 100, 128, 140.
MONELL, J., article by, 102.
Monohammus confusor, 225.
 " *scutellatus*, 221.
MORRIS, DR. JOHN G., article by, 218.
Moths, Canadian, named by F. Walker, 27.
 " Descriptions of new, 84.
 " Notes on early stages of some, 61.
MURRAY, WILLIAM, article by, 18.
Myrmecleon obsoletus, 160.

N

- Naturalists' Directory, 50, 228.
Neonympha areolatus, 200.
 " *gemma*, 200.
 " *sosybius*, Preparatory Stages of, 229.
Nephopteryx Zimmermanni, 163, 173.
Noctuæ, New, 21, 67, 98.
Noctuidæ, Notes on, 196.
Nola nigrofasciata, 237.
 " *sexmaculata*, n. s., 235.
Nolaphana malana, 29.
Nomada americana, 155.
Nothris dolabella, 23.

O

- Oberea tripunctata*, 226.

- Ochria *Buffaloensis*, n. s., 88.
 Ecphora australisella, 24.
 " constructella, 24.
 " determinatella, 24.
 Ophion macrurum, 60.
 Orthoptera collected by the Wheeler Expedition, 80.
 " collected in Colorado, 80.
 " new species of, 110.
 Orthosia *luteosa*, n. s., 99.
 Orthosoma cylindricum, 222.

P

- PACKARD, DR. A. S., article by, 100.
 Packard's Half Hours With Insects, 80.
 Pallachira, n. g., 107.
 " *bivittata*, n. s., 198.
 Pamphila *Meshei*, n. s., 58.
 " *Snowi*, n. s., 29.
 Papilio philenor, 200, 220.
 " *thoas*, 160.
 " *turnus*, black variety of, 20.
 Parthenos nubilis, 20.
 PEARSON, C. W., article by, 90.
 PEARSON, G. W., article by, 139.
 PECK, GEO. W., articles by, 140, 220.
 Perimede erransella, 147.
 Pezotettix *abditum*, n. s., 113.
 Philampeius achemon, 178.
 Pholisoria *hesperis*, n. s., 192.
 Phytiodes Harrisii, Preparatory Stages of, 165.
 " *tharos*, History of, 1, 51.
 Phyllocnitis magnatella, 73.
 Pieris rapae, 179, 184, 188.
 " *vernalis* a variety of protodice, 201.
 Pittys fasciella, 207.
 Platysamia cecropia, Metamorphic changes of, 41.
 " *"* two pupae in one cocoon, 60.
 " *"* food plant of, 160.
 Plusia aeroides, 28.
 " *Sackenii*, n. s., 135.
 Polio *pallifera*, n. s., 88.
 President's Address, 183.
 Prosopis elliptica, 153.
 Protoparce, 133.
 Pseudoglossa lubricalis, 29.
 Pseudohazis eglanterina, 96.
 " *hera*, 96.
 Psycomorpha epimenis, 160.
 Pteromalus puparum, 185.
 Pyralids, new, 103.

R

- Retarded Development, instance of, 138.
 Rhyncoptera of North America, 36.
 Riley's Ninth Annual Report, 137.
 Rocky Mountain Locust, 37.

S

- Samia *Gloveri* and *columbia*, 13.
 Saperda candida, 224.
 Saturnia io, Food Plants of, 180.
 Satyrus nephela, Preparatory Stages of, 141.
 SAUNDERS, W., articles by, 33, 36, 63, 80, 81, 97,
 137, 158, 160, 181, 238, 240.
 Scoparia centuriella, 29.

- Scopelosoma Pettiti, 213.
 " *tristigmata*, n. s., 156.
 Semela cristatella, 208.
 SIEWERS, C. G., article by, 127.
 Sirex juvencus, 148.
 Smerinthinae, 132.
 Smerinthus modesta, Notes on egg, larva and pupa,
 210.
 Sphingidae, Butler's Revision of, 130.
 " at sugar, 240.
 Sphinges, Notes on, 178.
 Sphinginae, 132.
 Sphinx kalmiae, 160.
 Sphinxes, Effect of Heat on Transformation of, 120.
 Spraguei *plumbifimbriata*, n. s., 68.
 Sugaring for Moths, 187.
 Syneda *Alleni*, n. s., 215.

T

- Tachinus axillaris, 92.
 " *colonus*, 92.
 " *fumipennis*, 92.
 Tarache *abdominalis*, n. s., 157.
 Tetracis lorata, Larva of, 62.
 Thalpochara *orbis*, n. s., 68.
 Theisoa bifasciella, 25.
 Thyreus nessus, Larva of, 19.
 Tinea auristrigella, 207.
 Tineina, articles on, 13, 123, 145, 194, 206
 " from Texas, 22, 71.
 Tornos *infumataria*, n. s., 90.
 Tortricidae, new genus of, 227.
 " Notice to Collectors of, 12.
 Tripteron, 132.
 Tripudia, n. g., 69.
 " *flavofasciata*, n. s., 69.

V

- Vanessa antiopa, 40.
 " *j-album*, 40.
 " *milberti*, 40.
 VAN WAGENEN, G. H., article by, 170.
 Vespa borealis, 152.
 " *maculata*, 153.
 " *marginata*, 153.
 " *vulgaris*, 151.

W

- WESTCOTT, O. S., article by, 220.
 White Ants, Ravages of, 147.
 WHITE, DR. BUCHANAN, article by, 16.
 WILLISTON, S. W., article by, 163.
 Wood-boring Beetles, a few common, 221.
 WORTHINGTON, C. E., articles by, 60, 178.

X

- Xylestha Clemensella, 208.

Z

- Zanclognatha laevigata, 29.
 ZIMMERMANN, CHAS. D., article by, 140.

07.5. Exch.

uch.